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B-358-R7

2/2 - (C) WPI / DERWENT XP-002241866
AN - 1982-75718E [36]
PR - JP19810203158 19810126
TI - Melting cryolite before starting-up aluminium electrolysis
cell - using heat produced by passing electric current through carbon
blocks contacting anode blocks and cathode lining
IW - MELT CRYOLITE START UP ALUMINIUM ELECTROLYTIC CELL HEAT PRODUCE PASS
ELECTRIC CURRENT THROUGH CARBON BLOCK CONTACT ANODE BLOCK CATHODE
LINING
PA - (SUMW) SUMITOMO ALUMINIUM SMELTING CO
PN - JP57123990 A 19820802 DW198236 005pp
IC - C25C3/06
AB - J57123990 Cryolite is melted before starting of a pre-baked type Al
salt electrolysis furnace for prodn. of metallic Al. At least one
carbon block is placed between anode blocks and cathode lining, and
electric current passed between the anode and cathode through the
carbon blocks until powdery cryolite placed on the bottom of the
furnace is melted by Joule's heat produced at the carbon blocks.
- The carbon block is pref. graphite. Pref. current density
through the carbon block is 25-400 A/sq.cm.
- Cryolite can be melted without damage to anode blocks and cathode
linings.